ET03338492145 #3

Practitioner's Docket No. 00109

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application of: Michio TANIMOTO, Hideto HASHIBA

for FIXED-BED SHELL-AND-TUBE REACTOR AND ITS USAGE, the specification of which is being transmitted herewith.

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Section 1. Forms PTO/SB/08A and 08B (substitute for Form PTO-1449)

Attached please find six substitute PTO-1449 forms.

Section 2. Copies of Listed Information Items Accompanying This Statement

Legible copies of all items listed on the PTO-1449 forms accompany this information statement. These items are:

U.S. Patent Documents

1	4,077,530	Fukusen et al. Engert et al. Magin et al. Nojiri et al. Nagase et al. Rizkalla et al. Buffum et al. Sato et al. Wada et al. Sugi et al. Ishii et al. Ueda et al. Takahashi et al. Hashiba et al.	03/07/1978
3	4,402,349		09/06/1983
4	4,461,327		07/24/1984
5	4,812,437		03/14/1989
7	5,395,812		03/07/1995
8	5,504,052		04/02/1996
9	5,145,824		09/08/1992
14	4,537,874		08/27/1985
15	Re. 29,901		02/06/1979
18	5,959,143		09/28/1999
20	4,707,460		11/17/1987
22	5,169,820		12/08/1992
24	4,760,153		07/26/1988
25	5,959,124		09/28/1999
25	5,959,124	Hashiba et al.	09/28/1999
31	5,994,580	Takahashi et al.	11/30/1999

I hereby certify that this correspondence and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date <u>January 6, 2002</u> in an envelope as "Express Mail Post Office to Addressee" Mailing Number <u>ET033384921US</u> addressed to Assistant Commissioner for Patents, Washington, D.C. 20231.

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(Information Disclosure Statement--Page 1 of 6)

31	6,060,422	Takahashi et al.	05/09/2000
32	4,837,360	Kadowaki et al.	06/06/1989
33	3,801,634	Krabetz et al.	04/02/1974
34	5,198,581	Kawajiri et al.	03/30/1993
35	5.719.318	Kawajiri et al.	02/17/1998

Foreign Patent Documents

					01/10/1077
1	JP	52-3579		Sumitomo Chemical	01/12/1977
2	JP	62-30545	Α	Mitsubishi Heavy Ind.	02/09/1987
3	JP	55-67325	Α	BASF Aktiengesellschaft	05/21/1980
4	JP	57-21928		BASF Aktiengesellschaft	02/04/1982
5	JP	63-116743		Mitsubishi Petrochem	05/21/1988
6	JP	62-4444	Α	Shell Internationale	01/10/1987
6	EP	0 207 550	B1	Shell Internationale	01/07/1987
7	JP	5-329368	Α	Nippon Shokubai	12/14/1993
8	JP	10-510212	Α	Scientific Design	10/06/1998
9	JP	5-84440	Α	Shell Oil Company	04/06/1993
10	JP	50-13308	В	Mitsubishi Rayon	02/12/1975
10	GB	1 444 659		Mitsubishi Rayon	08/04/1976
11	JP	64-56634	Α	Nippon Shokubai	03/03/1989
11	EP	0 304 867	A2	Nippon Shokubai	03/01/1989
12	JP	56-52013	B2	Standard Oil Co.	12/09/1981
12	GB	1 330 074		Standard Oil Co.	09/12/1973
13	JP	56-23969	B2	Standard Oil Co.	06/03/1981
13	GB	1 390 271		Standard Oil Co.	04/09/1975
14	JP	59-76541		Nippon Shokubai	05/01/1984
15	JP	49-11371		Nippon Shokubai	03/16/1974
16	JР	52-85091		Standard Oil Co.	07/15/1977
16	GB	1 566 882		Standard Oil Co.	05/08/1980
17	JР	6-279030	Α	Tenten et al.	10/04/1994
17	CA	2,114,681	Al	Tenten et al.	08/04/1994
18	JP	8-299797	A	Nippon Kayaku	11/19/1996
19	JР	60-33539	B2	Nippon Shokubai	08/03/1985
19	EP	0 043 100	B2	Nippon Shokubai	01/06/1982
20	JP	3-26101	B2	Mitsubishi Rayon	04/09/1991
21	JР	59-12758	Α	Sumitomo Kagaku	01/23/1984
22	JP	7-29056	B2	Nippon Shokubai	04/05/1995
23	JР	58-15176		BASF Aktiengesellschaft	03/24/1983
23	GB	1 496 832		BASF Aktiengesellschaft	01/05/1978
23 24	JP	62-78 A		Nippon Shokubai	01/06/1987
25	JP	10-167711	Α	Nippon Shokubai	06/23/1998
		7-51573	A	Mitsubishi Chemical	02/28/1995
26 26	JP EP	0 608 837	B1	Mitsubishi Chemical	08/03/1994
26 27	JP	5-115783	A	Mitsui Toatsu	05/14/1993
27	JP JP	50-35088		Chevron Research	04/03/1975
28	GB	1 416 099		Chevron Research	12/03/1975
28	JP	9-316023	Α	Toagosei Co Ltd	12/09/1997
29	JP	7-310043	1 1		

JP	10-57813	Α	Mitsubishi Chem Corp	03/03/1998
JР	10-120617	Α	Toagosei Co., Ltd.	05/12/1998
JР	63-38331	B2	Mitsubishi Petrochemical	07/29/1988
JР	53-30688		BASF Aktiengesellschaft	08/29/1978
JР	4-217932	Α	Nippon Shokubai	08/07/1992
JР	9-241209	Α	Nippon Shokubai	09/16/1997
JР	7-10802	Α	Sumitomo Chem	01/13/1995
JP	64-33162	U	Mitsubishi Denki	03/01/1989
JP	3-9770 B2		Nippon Shokubai	02/12/1991
JР	11-333282	Α	Sumitomo Chem	12/07/1999
JP	1-33152	Y2	Mitsui Toatsu	10/09/1989
	JP JP JP JP JP JP JP	JP 10-120617 JP 63-38331 JP 53-30688 JP 4-217932 JP 9-241209 JP 7-10802 JP 64-33162 JP 3-9770 B2 JP 11-333282	JP 10-120617 A JP 63-38331 B2 JP 53-30688 JP 4-217932 A JP 9-241209 A JP 7-10802 A JP 64-33162 U JP 3-9770 B2 JP 11-333282 A	JP 10-120617 A Toagosei Co., Ltd. JP 63-38331 B2 Mitsubishi Petrochemical JP 53-30688 BASF Aktiengesellschaft JP 4-217932 A Nippon Shokubai JP 9-241209 A Nippon Shokubai JP 7-10802 A Sumitomo Chem JP 64-33162 U Mitsubishi Denki JP 3-9770 B2 Nippon Shokubai JP 11-333282 A Sumitomo Chem

Other Prior Art -- Non Patent Literature Documents

None.

Section 3. Concise Explanation of Non-English Language List Information Items

A concise explanation of the relevance of the following foreign documents is found in the respective English abstract or English partial translation attached thereto:

2	JР	62-30545	Α	Mitsubishi Heavy Ind.	02/09/1987
21	JР	59-12758	Α	Sumitomo Kagaku	01/23/1984
27	JP	5-115783	Α	Mitsui Toatsu	05/14/1993
29	JP	9-316023	Α	Toagosei Co Ltd	12/09/1997
30	JР	10-57813	Α	Mitsubishi Chem Corp	03/03/1998
36	JP	7-10802	Α	Sumitomo Chem	01/13/1995
37	JP	64-33162	U	Mitsubishi Denki	03/01/1989
38	JP	3-9770 B2		Nippon Shokubai	02/12/1991
39	JP	11-333282	Α	Sumitomo Chem	12/07/1999
40	JP	1-33152	Y2	Mitsui Toatsu	10/09/1989

Section 4. Cumulative Patents or Publications

The references within the following sets of references are members of the same patent family and are believed to be cumulative of each other. Copies of all references are being submitted.

1	JP US	52-3579 4,077,530		Sumitomo Chemical Fukusen et al.	01/12/1977 03/07/1978
3	JP US	55-67325 4,402,349	A	BASF Aktiengesellschaft Engert et al.	05/21/1980 09/06/1983
4	JP US	57-21928 4,461,327		BASF Aktiengesellschaft Magin et al.	02/04/1982 07/24/1984

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5	JP US	63-116743 4,812,437		Mitsubishi Petrochem Nojiri et al.	05/21/1988 03/14/1989
6	JP	62-4444	A	Shell Internationale	01/10/1987
	EP	0 207 550	B1	Shell Internationale	01/07/1987
7	JP	5-329368	A	Nippon Shokubai	12/14/1993
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8	JP	10-510212	A	Scientific Design	10/06/1998
8	US	5,504,052		Rizkalla et al.	04/02/1996
9	JP	5-84440	A	Shell Oil Company	04/06/1993
9	US	5,145,824		Buffum et al.	09/08/1992
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10	GB	1 444 659		Mitsubishi Rayon	08/04/1976
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13	JP	56-23969	B2	Standard Oil Co.	06/03/1981
13	GB	1 390 271		Standard Oil Co.	04/09/1975
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15	JP	49-11371		Nippon Shokubai	03/16/1974
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17	JP	6-279030	A	Tenten et al.	10/04/1994
17	CA	2,114,681	A1	Tenten et al.	08/04/1994
18	JP	8-299797	A	Nippon Kayaku	11/19/1996
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19	JP	60-33539	B2	Nippon Shokubai	08/03/1985
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20	US	4,707,460		Ishii et al.	11/17/1987

22	JP	7-29056	B2	Nippon Shokubai	04/05/1995
22	US	5,169,820		Ueda et al.	12/08/1992
23	JP	58-15176		BASF Aktiengesellschaft	03/24/1983
23	GB	1 496 832		BASF Aktiengesellschaft	01/05/1978
24	JP	62-78 A		Nippon Shokubai	01/06/1987
24	US	4,760,153		Takahashi et al.	07/26/1988
25	JP	10-167711	A	Nippon Shokubai	06/23/1998
25	US	5,959,124		Hashiba et al.	09/28/1999
26	JP	7-51573	A	Mitsubishi Chemical	02/28/1995
26	EP	0 608 837	B1	Mitsubishi Chemical	08/03/1994
28 28	JP GB	50-35088 1 416 099		Chevron Research Chevron Research	04/03/1975 12/03/1975
31	JP	10-120617	A	Toagosei Co., Ltd.	05/12/1998
31	US	5,994,580		Takahashi et al.	11/30/1999
31	US	6,060,422		Takahashi et al.	05/09/2000
32	JP	63-38331	B2	Mitsubishi Petrochemical	07/29/1988
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33	JP	53-30688		BASF Aktiengesellschaft	08/29/1978
33	US	3,801,634		Krabetz et al.	04/02/1974
34	JP	4-217932	A	Nippon Shokubai	08/07/1992
34	US	5,198,581		Kawajiri et al.	03/30/1993
35	JP	9-241209	A	Nippon Shokubai	09/16/1997
35	US	5,719,318		Kawajiri et al.	02/17/1998

Section 5. Identification of Person Making This Information Disclosure Statement

The person making this certification is: the practitioner who signs below on the basis of the information supplied by an individual associated with the filing and prosecution of this

application.

Reg. No. 32,419

Tel. No.: (651) 698-4008

Customer No.: 23165

SIGNATURE OF PRACTITIONER

Robert J. Jacobson

Robert J. Jacobson, P.A. 650 Brimhall Street South St. Paul, MN 55116-1511

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Sheet 1		of 6	Attorney Docket Number	00109	ب.

				U.S. PATENT DOCU	JMENTS	
xaminer nitials*	Cite No.1	Number	cument ind Code ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	4,077,530		Fukusen et al.	03/07/1978	
	3	4,402,349		Engert et al.	09/06/1983	
	4	4,461,327		Magin et al.	07/24/1984	
	5	4,812,437		Nojiri et al.	03/14/1989	
	7	5,395,812		Nagase et al.	03/07/1995	
	8	5,504,052		Rizkalla et al.	04/02/1996	
	9	5,145,824		Buffum et al.	09/08/1992	
	14	4,537,874		Sato et al.	08/27/1985	
	15	Re. 29,901		Wada et al.	02/06/1979	
	18	5,959,143		Sugi et al.	09/28/1999	
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	22	5,169,820		Ueda et al.	12/08/1992	
	24	4,760,153		Takahashi et al.	07/26/1988	
	25	5,959,124		Hashiba et al.	09/28/1999	
	31	5,994,580		Takahashi et al.	11/30/1999	
	31	6,060,422		Takahashi et al.	05/09/2000	
	32	4,837,360		Kadowaki et al.	06/06/1989	
<u> </u>	33	3,801,634		Krabetz et al.	04/02/1974	
	34	5,198,581		Kawajiri et al.	03/30/1993	
	35	5,719,318		Kawajiri et al.	02/17/1998	

				FOR	EIGN PATENT DOCUMENT	rs		
Examiner Initials	Cite No.1	Foreign Patent Document Kind Code ⁵ Office ³ Number ⁴ (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Te	
	1	JP	52-3579		Sumitomo Chemical	01/12/1977		+-
	2	JP	62-30545	Α	Mitsubishi Heavy Ind.	02/09/1987		┼-
	2	JP	55-67325		BASF Aktiengesellschaft	05/21/1980		—
	4	JP	57-21928		BASF Aktiengesellschaft	02/04/1982		+-
	5	JP	63-116743		Mitsubishi Petrochem	05/21/1988		+
	6	JP	62-4444	A	Shell Internationale	01/10/1987		+-
	6		0 207 550	B1	Shell Internationale	01/07/1987		+-
	7	JP	5-329368	A	Nippon Shokubai	12/14/1993		
 	8	JP	10-510212	A	Scientific Design	10/06/1998		—
	9	JР	5-84440	A	Shell Oil Company	04/06/1993		

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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	Complete if Known			
Substitute for form 1449A/PTO	Application Number	OF EVEN DATE		
INFORMATION DISCLOSURE		OF EVEN DATE		
STATEMENT BY APPLICANT	First Named Inventor	Michio TANIMOTO		
_	Group Art Unit			
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Sheet 2 of 6	Attorney Docket Number	00109		

				U.S. PATENT DOC	UMENTS	
Examiner Cite U.S. Patent Document				Name of Patentee or Applicant	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
xaminer nitials*	No.1	Number	Kind Code ²	of Cited Document	MM-DD-YYYY	Figures Appear
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	10	JP	50-13308	В	Mitsubishi Rayon	02/12/1975		<u> </u>
	10	GB			Mitsubishi Rayon	08/04/1976		┼
	11		64-56634	A	Nippon Shokubai	03/03/1989		
	11		0 304 867		Nippon Shokubai	03/01/1989		+-
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	12	JP	56-23969		Standard Oil Co.	06/03/1981		
 	13	GB	1 390 271		Standard Oil Co.	04/09/1975		┿
	13	+	59-76541		Nippon Shokubai	05/01/1984		+-
_	14	JP JP	49-11371		Nippon Shokubai	03/16/1974		—

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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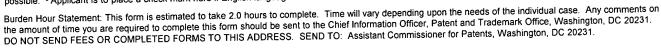
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	U.S. PATENT DOCUMENTS								
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	16	JР	52-85091		Standard Oil Co.	07/15/1977		
	16	GB	1 566 882		Standard Oil Co.	05/08/1980		
	17	JP	6-279030	A	Tenten et al.	10/04/1994		┷
	17	_	2,114,681	A1	Tenten et al.	08/04/1994		
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	ute for form 1449A/PTO		Application Number	OF EVEN DATE		
INF	ORMATION	DISCLOSURE	Filing Date	OF EVEN DATE		
STA	TEMENT B	Y APPLICANT	First Named Inventor	Michio TANIMOTO		
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	(use as many shee	ets as necessary)	Examiner Name			
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		_			
		Cite	No.1 Number Kind Code	Cite National Name of Patentee or Applicant of Cited Document	Cite Name of Patentee of Applicant Cited Document

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	23	JР	58-15176		BASF Aktiengesellschaft	03/24/1983		1_
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Sheet	5		of	6

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Application Number	OF EVEN DATE					
Filing Date	OF EVEN DATE					
First Named Inventor	Michio TANIMOTO					
Group Art Unit						
Examiner Name						
Attorney Docket Number	00109					

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			First Named Inventor	Michio TANIMOTO
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